

## PATENT COOPERATION TREATY

From Japanese Patent Office  
(INTERNATIONAL SEARCH AUTHORITY)

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| To: HAYASE, Kenichi<br><br>HAYASE & CO.<br>13F, NISSAY SHIN-OSAKA Bldg.,<br>3-4-30, Miyahara, Yodogawa-ku,<br>Osaka-shi, Osaka 532-0003 JAPAN | <b>PCT</b><br><br>WRITTEN OPINION OF THE ISA<br>(PCT Rule 43bis) |
|   | Date of Mailing<br>18 January 2005                               |

|  |   |                                   |
|--|---|-----------------------------------|
| Applicant's or agent's file reference<br>P36064-PO   | See item 2 below for the subsequent procedure |                                   |
| International application No.<br>PCT/JP2004/018362   | International filing date<br>09 December 2004 | Priority date<br>10 December 2003 |
| International Patent Classification (IPC) or national classification and IPC<br>Int. Cl. <sup>7</sup> G02B 26/10, H04N3/08 |   |                                   |
| Applicant<br>Matsushita Electric Industrial Co., Ltd.  |   |                                   |

## 1. This opinion contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of report with regard to novelty, inventive step or industrial applicability
- IV ☒ Lack of unity of invention
- V ☒ Reasoned statement under Rule 43.2.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

OMISSION (2 and 3)

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| Date of completion of this opinion<br>28 December 2004 |
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| Name and mailing address of the ISA/JP<br>Japanese Patent Office | Authorized officer<br><br>Telephone No. |
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**I . Basis of the opinion**

1. This opinion has been drawn on the basis of the language of international application, unless otherwise indicated below.

OMISSION (2, 3 and 4)

## IV. Lack of unity of invention

1. In response to the invitation to pay additional fees the applicant has:

OMISSION

2. ☒ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

☒ not complied with for the following reasons:

The term common to the inventions relating to Claims 1 to 21 is that a display device for projecting coherent light onto a screen is constructed such that plural scanings are carried out on the screen with respect to scanning on one reflection plane.

However, as a result of research, it becomes obvious that the above-mentioned construction is not novel because it is disclosed in JP 64-013114 A (Fujitsu Ltd.) 1989.01.18, entire text, Figs.1-2; and JP 57-052031 A (Canon Inc.) 1982.03.27, entire text, Figs.1-5.

Consequently, since the above-mentioned construction is no more than the prior art, within the meaning of PCT rule 13.2, 2nd sentence, this common term (the above-mentioned construction) is not a specific technical feature.

Accordingly, there is no item that is common to all the inventions relating to Claims 1-21. Since there exists no other common item that is thought to be a specific technical feature within the meaning of PCT rule 13.2, 2nd sentence, and therefore, it is impossible to find technical relationships within the meaning of PCT rule 13 among those different inventions.

Therefore, it is evident that the inventions relating to Claims 1-21 do not fulfill the unity of invention requirements.

4. Consequently, the following parts of the international application were the subject of written opinion:

☒ all parts

## WRITTEN OPINION OF THE ISA

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| International application No.<br>PCT/JP2004/018362 |
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**V Reasoned statement under Rule 43,2.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**
**1. STATEMENT**

|                               |                             |     |
|-------------------------------|-----------------------------|-----|
| Novelty (N)                   | Claims 8, 14-15, 17, 21     | YES |
|                               | Claims 1-7, 9-13, 16, 18-20 | NO  |
| Inventive Step (IS)           | Claims 8                    | YES |
|                               | Claims 1-7, 9-21            | NO  |
| Industrial Applicability (IA) | Claims 1-21                 | YES |
|                               | Claims NONE                 | NO  |

**2. CITATIONS AND EXPLANATIONS**

Reference 1: JP 64-013114 A (Fujitsu Ltd.)  
1989.01.18, entire text, Figs.1-2

Reference 2: JP 57-052031 A (Canon Inc.)  
1982.03.27, entire text, Figs.1-5

Reference 3: JP 50-026305 B1 (Fuji Photo Film Co., Ltd.)  
1975.08.30. entire text, Figs.1-5

Reference 4: JP 2-259617 A (Sony Corporation)  
1990.10.22, entire text, Figs.1-10  
& EP 0390534 A2  
& US 5044710 A

Since the inventions relating to Claims 1, 18-19 are respectively disclosed in the references 1, 3, and 4 which are cited in the International Search Report, these inventions have neither novelty nor inventive step.

Since the inventions relating to Claims 2-7 are disclosed in the reference 1, these inventions have neither novelty nor inventive step.

Since the inventions relating to Claims 1, 9-11, 16, and 20 are disclosed in the reference 2 which is cited in the International Search Report, these inventions have neither novelty nor inventive step.

The inventions relating to Claims 12-13, 17, and 21 have neither novelty nor inventive step because of the reference 3.

The inventions relating to Claims 14-15 have no inventive step because of the reference 3. In the reference 3, it is easy for those skilled in the art to design the number of reflection planes and the shapes of reflection planes so as to obtain desired scanning.

The invention relating to Claim 8 is disclosed in none of the references cited in the International Search Report, and therefore, it is not obvious to those skilled in the art.

## Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of V.

The inventions relating to Claims 12-15, 17, and 21 have no inventive step because of the reference 1 and the reference 4 cited in the International Search Report. In the reference 1, it is easy for those skilled in the art to obtain a free-form surface mirror by designing a mirror surface with reference to the reference 4 so as to obtain desired scanning.

The invention relating to Claim 8 is disclosed in none of the references cited in the International Search Report, and therefore, it is not obvious to those skilled in the art.